› User manual

Pressure sensor | Type DS20

FSM AG | Scheffelstraße 49 | D-79199 Kirchzarten
Phone +49 7661 9855 0 | Fax +49 7661 9855 900
info@fsm.ag | **www.fsm.ag**

The microprocessor-controlled pressure transducers of the DS01 type series are suitable for the detection of excess pressure, low pressure or differential pressure of non-aggressive gases. Pressure measurement is carried out by means of a inductive system. The temperature drift of the sensors is compensated individually.

Safety instructions

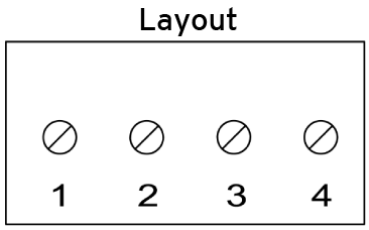
- Read before installation and commissioning instructions carefully.
- Do not blow into the pressure ports
- Connect the supply voltage to the output terminals not
- Observe the usual rules and safety regulations for electrical, light and power systems.
- Particular note are the country-specific regulations (eg VDE 0100).

Start-up

Connect the sensor as pictured to the corresponding supply voltage and output signal by using of terminal 1 – 4. Connect the positive pressure on the „+“ connector of the sensor. The reference pressure is connected on the “-“ side of the sensor. Make sure that the connected pressure is within the specification of the device. Otherwise the sensor may be damaged.

Layout

Terminal number	Description
1	VCC : 19... 32 VDC
2	GND
3	GND
4	Output: 4... 20mA



Zero point settings

In order to avoid influences of position, the sensor should be adjusted after mounting. This applies to the adjustment of the amplitude, as well as for the setting of the zero point. In order to balance the zero point, no pressure must be applied to the pressure connections (zero pressure). Open the face frame with the plastic window. Press the ZERO button to set the zero point. The connected pressure is set to zero.

Amplitude settings

Set the nominal pressure and press the AMPL. Button. The connected nominal pressure is calibrated. Push the button for the setting of the amplitude only if nominal pressure is connected.